




**THE DATASHEET OF
SRP7030-1R8M**





Features

- Shielded construction
- Unit height of 3.2 mm
- Inductance range: 0.1 to 10 μ H
- Current up to 32.5 A
- RoHS compliant*

 This series is currently available, but not recommended for new designs. The newer [SRP7028A](#) series is recommended.

SRP7030 Series - Shielded Power Inductors

Electrical Specifications

Bourns Part No.	Inductance L (μ H) $\pm 20\%$	I rms (A)	I sat (A)	DCR (m Ω) Max.
SRP7030-R10M	0.10	32.5	42	1.7
SRP7030-R15M	0.15	26.0	38	2.5
SRP7030-R20M	0.20	24.0	36	3.0
SRP7030-R22M	0.22	23.0	36	2.8
SRP7030-R33M	0.33	20.0	30	3.9
SRP7030-R47M	0.47	17.5	26	4.2
SRP7030-R68M	0.68	15.5	23	5.5
SRP7030-R72M	0.72	15.5	23	5.5
SRP7030-R82M	0.82	13.0	20	8.0
SRP7030-1R0M	1.0	11.0	15	10.0
SRP7030-1R5M	1.5	9.0	14	15.0
SRP7030-1R8M	1.8	8.5	13	17.0
SRP7030-2R2M	2.2	8.0	12	20.0
SRP7030-3R3M	3.3	6.0	10	30.0
SRP7030-4R7M	4.7	5.5	6.5	40.0
SRP7030-6R8M	6.8	4.5	6.0	60.0
SRP7030-8R2M	8.2	4.0	5.5	68.0
SRP7030-100M	10.0	3.0	4.5	85.0

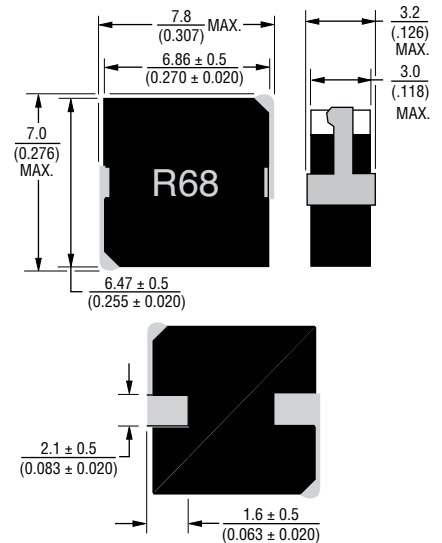
General Specifications

Test Voltage 1 V
 Test Frequency 100 KHz
 Reflow Soldering .. 230 °C; 50 sec. max.
 Operating Temperature
 -40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature (On Board)
 -40 °C to +125 °C
 Resistance to Soldering Heat
 +260 °C for 10 sec.
 Moisture Sensitivity Level 1
 ESD Classification (HBM) N/A

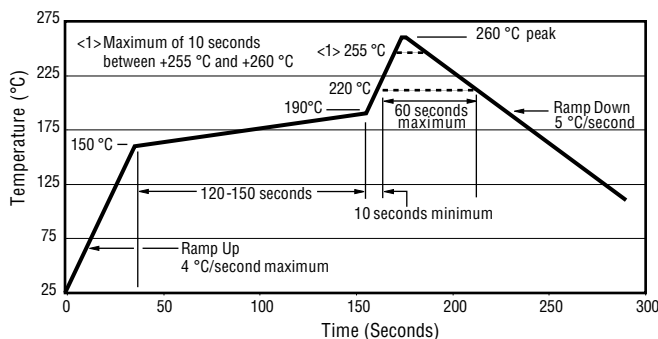
Materials

Core Iron
 Wire Enameled copper
 Terminal Cu/Sn
 Rated Current Ind. drops 20 % at Isat
 Temperature Rise 40 °C at rated Irms
 Packaging 1000 pcs. per 13-inch reel

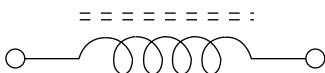
Product Dimensions



Soldering Profile



Electrical Schematic



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

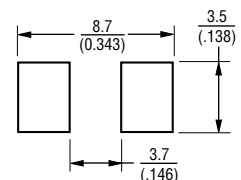
*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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Recommended Layout

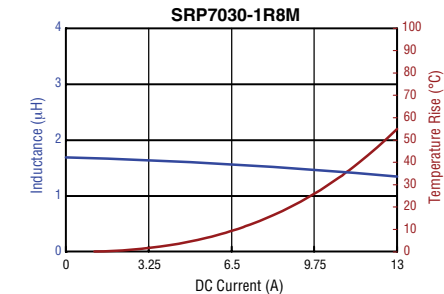
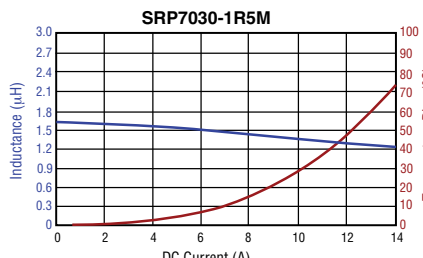
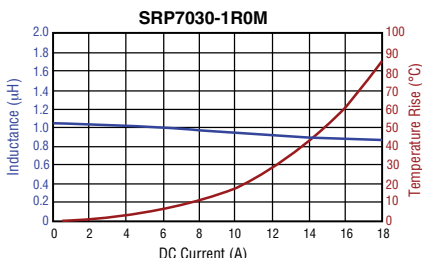
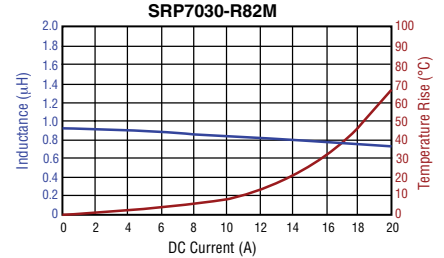
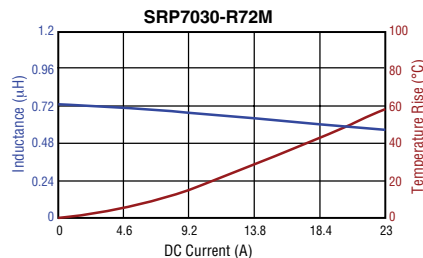
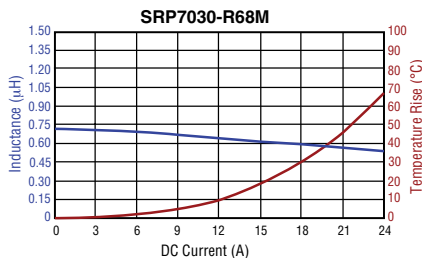
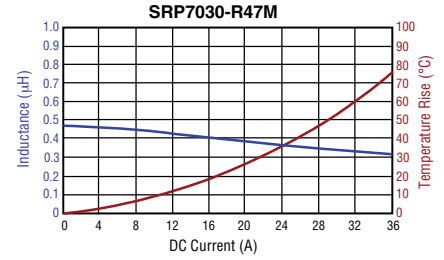
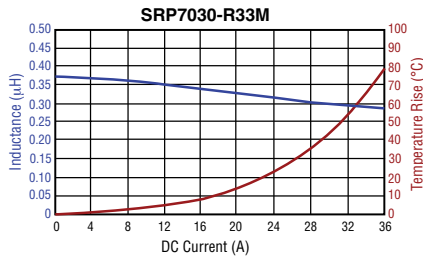
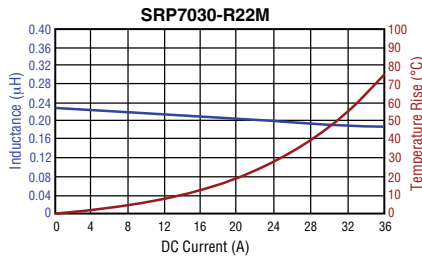
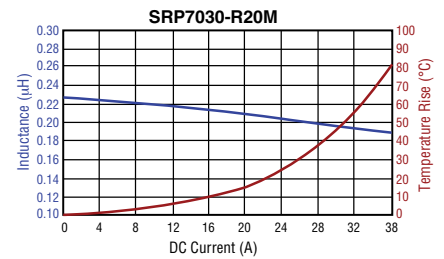
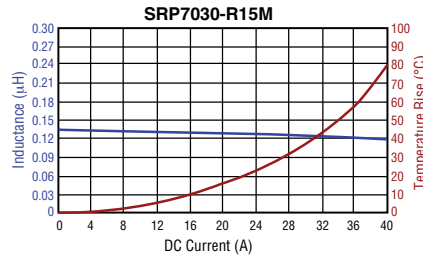
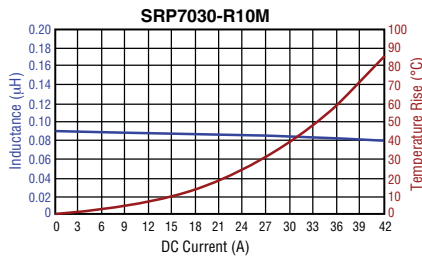


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

SRP7030 Series - Shielded Power Inductors

BOURNS®

L vs. I Charts

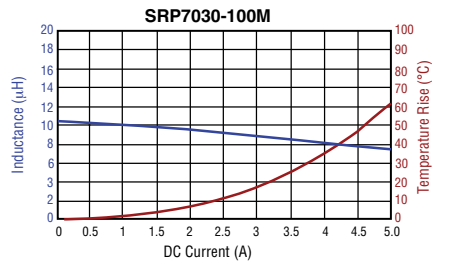
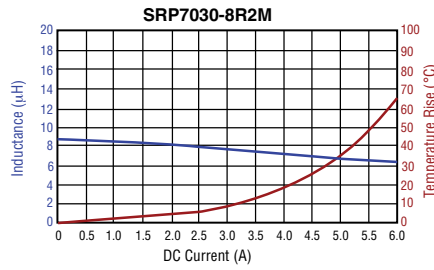
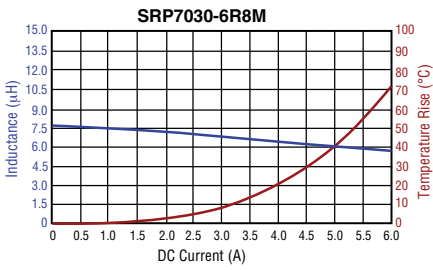
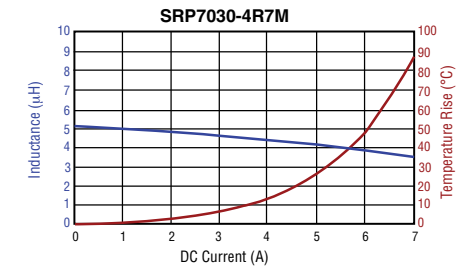
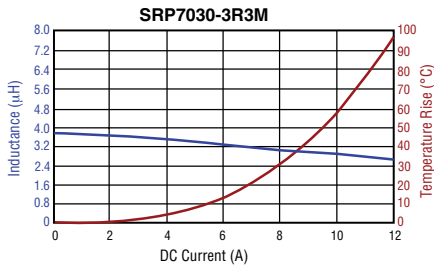
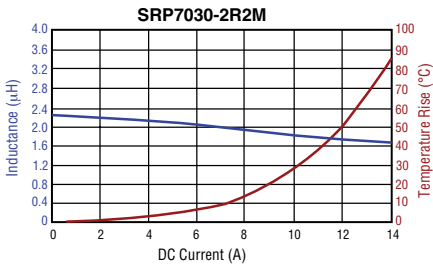


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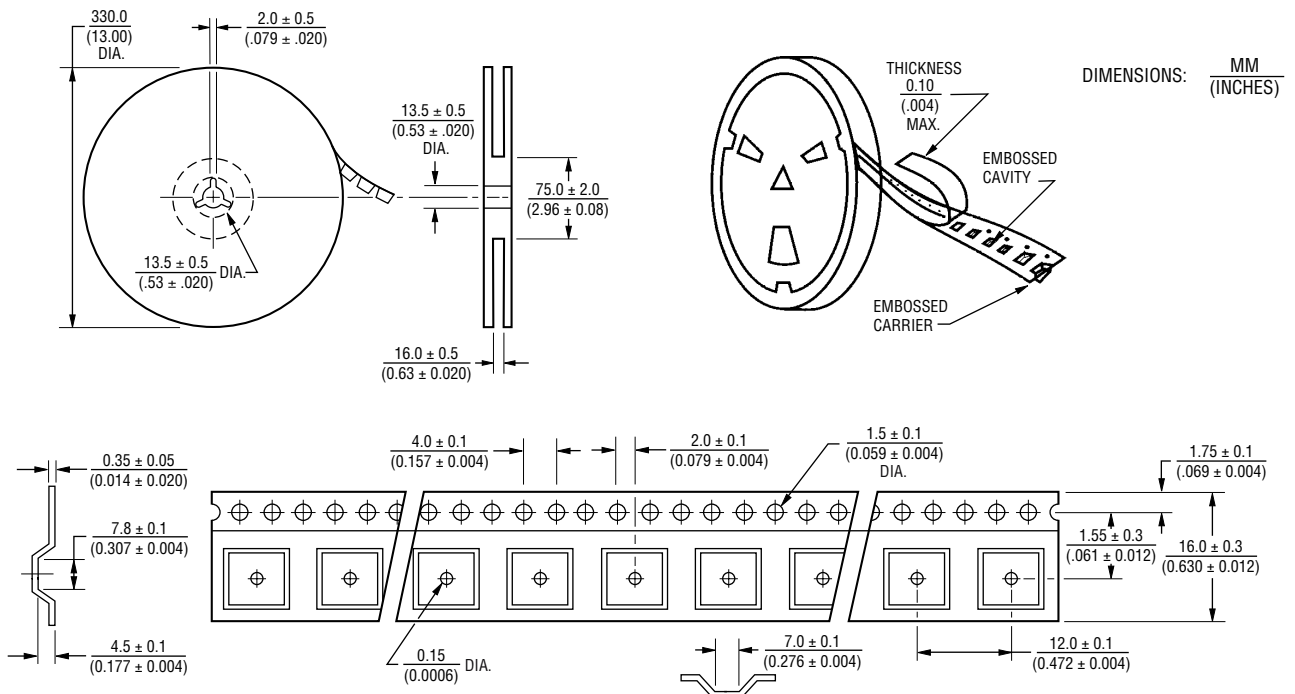
SRP7030 Series - Shielded Power Inductors

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L vs. I Charts



Packaging Specifications



REV. 06/19

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